

~~TOP SECRET~~

SUPPLEMENT

PHOTOGRAPHIC INTERPRETATION REPORT



KH-4 MISSION 1108

IPIR NUMBER 19

OAK SUPPLEMENT PART XV

5-21 DECEMBER 1969

TCS-20015/70
JANUARY 1970
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AND DECLASSIFICATION

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WARNING

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TARGET CATEGORIES

1. GUIDED MISSILES *
 - A. ICBM Deployment
 - B. IRBM and MRBM (including search areas)
 - C. Research and Development (including space)
 - D. Production Facilities (including test)
 - E. Suspect Missile (Search area or undetermined activity)
 - F.
 - G. Naval Launched Missiles
 - H. Anti-Missile Missile
 - I. SAM Sites
 - J. Short Range Surface-to-surface Missiles
 - K. Missile support/storage areas
 - L. SAM Training Complexes
 2. AIRCRAFT
 - A. Long Range Bases
 - B. Production Facilities (including R and D)
 - C. Airfields
 3. NUCLEAR ENERGY
 - A. Test Area
 - B. Production
 - C. Stockpiles
 - D. Research Institutes
 - E. Suspect Activity
 4. NAVAL ACTIVITY
 - A. Operating Bases
 - B. Production Yards
 - C. Commercial Ports
 - D. Locks and Canals
 5. BIOLOGICAL/CHEMICAL WARFARE
 - A. BW/CW Test Areas (including test)
 - B. Production
 - C. Storage
 - D. Research Institutes
 - E. Suspect Activity
 6. ELECTRONICS
 - A. Missile Tracking Facilities
 - B. Electronics (general)
 7. MILITARY
 - A. Military Installations
 - B. Special Areas
 - C.
 - D. Landing Beaches
 - E.
 - F.
 - G. Tactical SSM Support Facilities
 8. URBAN/INDUSTRIAL
 - A. Complexes
 - B. Industrial Plants
 - C. Geodetic Control Points
 9. OTHER
 - A. Unidentified Installations
- * Digits in these numbers indicate specific target complexes. A suffix identifies individual components within the complex.

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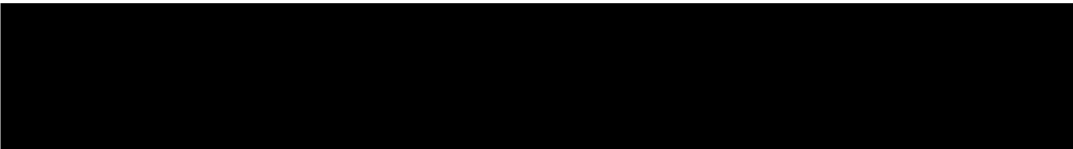
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NUCLEAR ENERGY
CBR FACILITIES
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PREFACE

PREFACE

THIS IS THE FIFTEENTH OAK SUPPLEMENT REPORT ON MISSION 1108.
FOR COMPLETE PREFACE SEE THE FIRST OAK SUPPLEMENT REPORT.

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CHINA
MISSILE RANGES

SIGNIFICANT RESULTS

25X1D

SHUANG-CHENG-TZU MISSILE TEST CENTER

25X1D

25X1A

25X1A

STATUS: OPERATIONAL

REMARKS:

25X1D

THE ENTIRE MISSILE TEST CENTER IS COVERED. NO MISSILES OR MISSILE-RELATED PIECES OF EQUIPMENT ARE OBSERVED IN THE SSM LAUNCH AREAS OR OPERATIONAL SUPPORT AREAS. CONSTRUCTION CONTINUES AT LAUNCH COMPLEX B. THE GANTRY HAS BEEN MOVED FROM OVER THE LAUNCH POINT TO THE OPPOSITE EDGE OF PAD B1. THREE PROBABLE INSTRUMENTATION SITES ARE UNDER CONSTRUCTION IN THE DESERT NE OF THE SCTMTC AIRFIELD. THE THREE SITES FORM A TRIANGLE HAVING SIDES 12, 15.5, AND 23.5 NM LONG. EACH SITE CONSISTS OF FOUR BUILDINGS, THE LARGEST OF WHICH IS APPROXIMATELY [REDACTED], AND A FEW SMALL STRUCTURES OR BUNKERS. THESE SITES ARE NEW SINCE [REDACTED]

25X1D

25X1D

OTHER RESULTS-NO APPARENT CHANGE

25X1D

SHUANG-CHENG-TZU MTC SSM TRKNG FAC 10
NAC

25X1D

25X1A

STATUS: OPERATIONAL

25X1D

25X1D

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CHINA
AIR DEFENSE MISSILES

SIGNIFICANT RESULTS

25X1D

KUANG-CHOU SAM SITE B28-2

25X1D

25X1A

25X1A

STATUS: UNOCCUPIED

REMARKS:

THE SITE APPEARS TO BE NEARLY COMPLETE AND CONSISTS OF SIX EXCAVATED LAUNCH POSITIONS AND AN EXCAVATED CENTRAL GUIDANCE AREA CONTAINING TWO BUILDINGS. THREE MISSILE-HOLD BUILDINGS ARE LOCATED ALONG THE PERIMETER ROAD. THE SUPPORT AREA TO THE SE CONTAINS 20 BUILDINGS. A PROBABLE SUPPORT AREA TO THE SOUTH CONTAINS 19 BUILDINGS.

25X1D

25X1D

25X1D NAN-CHING SAM SITE A33-2

25X1A

25X1A

STATUS: OCCUPIED

REMARKS:

THE SITE IS PROBABLY OCCUPIED.

MISSILE ORDER OF BATTLE:
2 POSS LAUNCHERS

25X1D

25X1D

SHUANG-CHENG-TZU MTC SAM SITE B07-2

25X1D

25X1A

25X1A

STATUS: OCCUPIED

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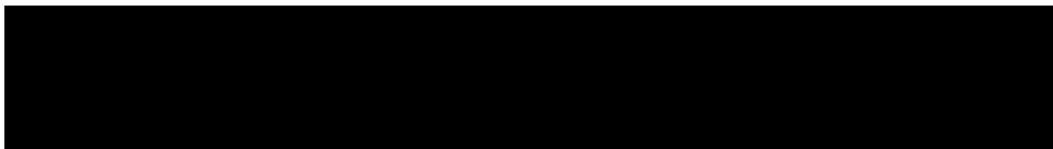
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CHINA
AIR DEFENSE MISSILES

REMARKS:

NEW TRACK ACTIVITY IS PRESENT BETWEEN THE SAM SITE AND
INSTRUMENTATION SITE 13.



25X1D

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CHINA
COMMO/ELEC/RADAR FACILITIES

SIGNIFICANT RESULTS

25X1D

CHING-HAI AW RADAR FACILITY

25X1D

STATUS: OPERATIONAL

25X1A

25X1A

PHYSICAL DESCRIPTION:

900 METERS SOUTH OF KUNGSHAOIKO,
THE TRENCH-SECURED AIR WARNING RADAR FACILITY CONTAINS ONE
CONTROL BUILDING, ONE BARRACKS, AND THREE SUPPORT BUILDINGS.

ELECTRONIC ORDER OF BATTLE:

25X1D

1 MOON FACE-TYPE RADAR

25X1D

1 MOON FACE-TYPE RADAR

25X1D

SHAN-HSI SUSP COMMO/ELEC FAC SEARCH

37-00-//N 119-00-//E

25X1D

STATUS: NEGATED

25X1A

25X1A

ELECTRONIC ORDER OF BATTLE:

NO COMMUNICATIONS OR ELECTRONICS FACILITY IS OBSERVED.

25X1D

25X1D

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CHINA
AIR BASE FACILITIES

SIGNIFICANT RESULTS

MU-TAN CHIANG/WEN-CHUN NORTHEAST AFLD

25X1D

25X1D

25X1A

25X1A

STATUS:UNKNOWN

REMARKS:
THE RUNWAYS ARE SNOW COVERED.

AIR ORDER OF BATTLE:
NONE DISCERNIBLE

25X1D

YEN-CHI AIRFIELD EAST

25X1A

25X1D

25X1D

25X1A

STATUS:UNKNOWN

REMARKS:
THE RUNWAY IS SNOW COVERED.

AIR ORDER OF BATTLE:
NONE DISCERNIBLE

25X1D

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CHINA
NAVAL BASE FACILITIES

SIGNIFICANT RESULTS

25X1D

25X1D

CHEN-TAI NAVAL FACILITY
[REDACTED] NAC

STATUS: OPERATIONAL

25X1A

NAVAL ORDER OF BATTLE:
4 SHANGHAI PGM

3 POSS PGM

25X1D

25X1D

SHAN-TOU BOATYARD NORTH
[REDACTED] NAC

25X1D

STATUS: OPERATIONAL

25X1A

NAVAL ORDER OF BATTLE:
2 VESSELS AT WHARF

25X1D

25X1D

25X1D

SHAN-WEI NAVAL BASE
[REDACTED] NAC

STATUS: OPERATIONAL

25X1A

NAVAL ORDER OF BATTLE:
6 SHANGHAI PGM

25X1D

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CHINA
GROUND FORCE FACILITIES

SIGNIFICANT RESULTS

25X1D

25X1D

CHANG-HSIN-TIEN ARMY BARRACKS AL 2
NAC

STATUS:OCCUPIED

GROUND FORCE ORDER OF BATTLE:
8 VEHICLES/PIECES OF
EQUIPMENT

25X1A

25X1D

25X1D

25X1D

CHANG-HSIN-TIEN ORD DPO ARMY BKS AL 1
NAC

STATUS:OCCUPIED

25X1A

REMARKS:
THE VEHICLES/PIECES OF EQUIPMENT ARE PARKED IN THE CENTER OF
THE OVAL-SHAPED ATHLETIC FIELD.

GROUND FORCE ORDER OF BATTLE:
2 ROWS OF VEHICLES/PIECES
OF EQUIPMENT

25X1D

25X1D

25X1D

CHEN-CHIANG ARMY BARRACKS SOUTHEAST
NAC

STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:
SEVERAL ROWS OF
VEHICLES/PIECES OF
EQUIPMENT

25X1D

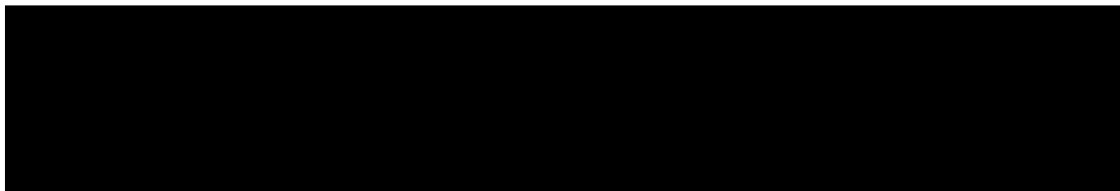
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CHINA
GROUND FORCE FACILITIES

25X1D



25X1D

CHEN-TZU-CHEN ARMY BKS SOUTHEAST AL 1
NAC

25X1D

STATUS:OCCUPIED

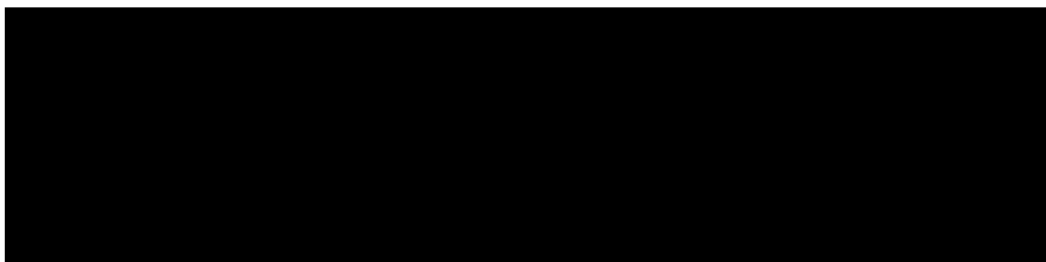
25X1A

25X1D

GROUND FORCE ORDER OF BATTLE:

18 PIECES OF EQUIPMENT

25X1D



25X1D

25X1D

CHIN-CHOU MILITARY BARRACKS
NAC

STATUS:OCCUPIED

25X1A

REMARKS:

APPROXIMATELY 25 ROWS OF BUILDING MATERIAL (PROBABLY LUMBER)
ARE OBSERVED ADJACENT TO THE NEW RAIL SPUR.

GROUND FORCE ORDER OF BATTLE:
NONE DISCERNIBLE

25X1D



25X1D

25X1D

FANG-SHAN ARMY BARRACKS NNW AL 2

25X1A

25X1A

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CHINA
GROUND FORCE FACILITIES

STATUS:OCCUPIED

REMARKS:

ONE MULTISTORY ADMINISTRATION/SUPPORT BUILDING HAS BEEN
CONSTRUCTED SINCE [REDACTED]

GROUND FORCE ORDER OF BATTLE:
10 PIECES OF EQUIPMENT (AT
LEAST)

[REDACTED]

HSI-CHANG ARMY BARRACKS AL 1
NAC

STATUS:OCCUPIED

GROUND FORCE ORDER OF BATTLE:
10 VEHICLES/PIECES OF
EQUIPMENT

[REDACTED]

HUAI-LAI ARMY BARRACKS NORTHWEST AL 1
NAC

STATUS:OCCUPIED

GROUND FORCE ORDER OF BATTLE:
10 VEHICLES/PIECES OF
EQUIPMENT (AT LEAST)

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CHINA
GROUND FORCE FACILITIES

25X1D



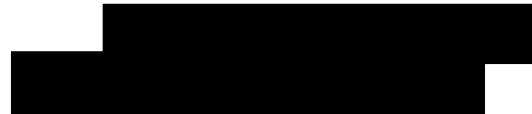
25X1D

KAI-FENG ARMY BARRACKS AL 3

25X1D



NAC

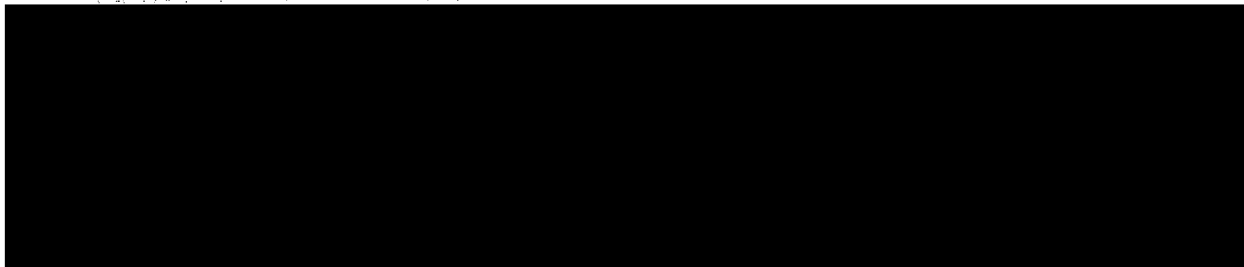


STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:
15 VEHICLES (AT LEAST)

25X1D



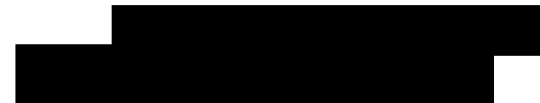
25X1D

KAI-FENG ARMY BARRACKS SOUTHWEST AL 1

25X1D



NAC

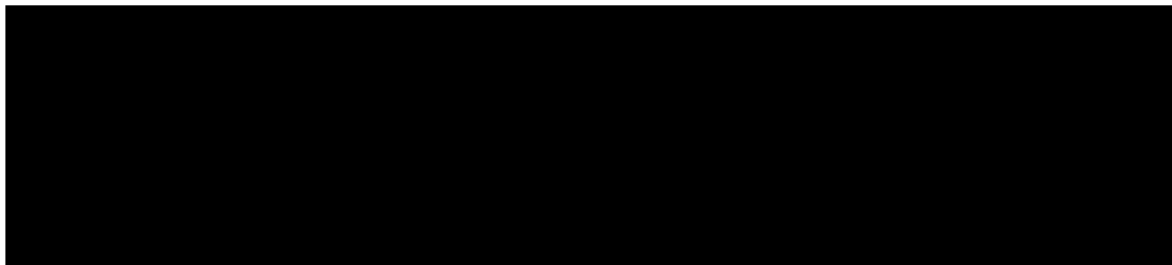


STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:
22 VEHICLES/PIECES OF
EQUIPMENT (AT LEAST)

25X1D



25X1D

LIANG-HSIANG ARMY BARRACKS AL 1

25X1D



NAC



STATUS:OCCUPIED

25X1A

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CHINA
GROUND FORCE FACILITIES

GROUND FORCE ORDER OF BATTLE:
8 ROWS OF VEHICLES/PIECES
OF EQUIPMENT

25X1D

25X1D

LIU-CHIA-CHENG-CHANG ARMY BKS AL 1
NAC

25X1D

STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:

25X1D

6 POSS FA PIECES

4 POSS TRUCKS

25X1D

25X1D

LU-YANG-I ARMY BARRACKS NW AL 1
NAC

25X1D

STATUS:OCCUPIED

25X1A

REMARKS:

25X1D

THE VEHICLE STORAGE BUILDING REPORTED UNDER CONSTRUCTION IN
HAS BEEN COMPLETED.

25X1D

GROUND FORCE ORDER OF BATTLE:
20 VEHICLES/PIECES OF
EQUIPMENT (APPROXIMATELY)

25X1D

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CHINA
GROUND FORCE FACILITIES

25X1D 25X1D
NAN-CHING ARMY BARRACKS EAST AL 2
[REDACTED] NAC [REDACTED]
STATUS: OCCUPIED 25X1A

25X1D
GROUND FORCE ORDER OF BATTLE:
36 PROB FA PIECES 25 PROB TRUCKS (AT LEAST)
18 PROB AAA PIECES
[REDACTED] 25X1D

25X1D 25X1D
NAN-CHING ARMY BKS SOUTH AL 4
[REDACTED] NAC [REDACTED]
STATUS: OCCUPIED 25X1A
GROUND FORCE ORDER OF BATTLE:
10 VEHICLES (AT LEAST)
5 VEHICLES/PIECES OF
EQUIPMENT

25X1D [REDACTED] 25X1D

25X1D 25X1D
NAN-CHING FOURTH ADVANCED INF SCHOOL
[REDACTED] NAC [REDACTED]
STATUS: OCCUPIED 25X1A
GROUND FORCE ORDER OF BATTLE:
5 VEHICLES

25X1D [REDACTED]

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CHINA
GROUND FORCE FACILITIES

25X1D

PEI-CHING ARMY BARRACKS NORTH AL 1
NAC

25X1D

STATUS:OCCUPIED

25X1A

25X1D

GROUND FORCE ORDER OF BATTLE:

30 PROB AAA PIECES (AT
LEAST)

25X1D

34 PROB AAA PIECES (AT
LEAST)

25X1D

25X1D

PEN-CHI ARMY BARRACKS AL 2

25X1D

STATUS:UNKNOWN

25X1A

25X1A

REMARKS:

THE INSTALLATION AT THE REFERENCED COORDINATES CONTAINS
APPROXIMATELY 15 BUILDINGS (ONE T-SHAPED) BUT CANNOT BE
CONFIRMED AS BEING MILITARY DUE TO SMALL SCALE OF PHOTOGRAPHY.

25X1D

25X1D

25X1D

PIEN-NIU-PAO-TZU ARMY BARRACKS AL 2

STATUS:OCCUPIED

25X1A

25X1A

PHYSICAL DESCRIPTION:
5 NM NE OF PIENNIUPAOTZU.

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CHINA
GROUND FORCE FACILITIES

A POSSIBLE ARMORED REGIMENT IS DISPERSED THROUGHOUT SEVEN VALLEYS AND CONTAINS 49 BARRACKS, ONE ADMINISTRATION BUILDING, 25 VEHICLE/EQUIPMENT SHEDS, ONE AUDITORIUM, 53 STORAGE/SUPPORT BUILDINGS, AND TWO TRACKED-VEHICLE DRIVER-TRAINING COURSES. EXTENSIVE TRACK ACTIVITY IS OBSERVED THROUGHOUT THE ENTIRE INSTALLATION.

GROUND FORCE ORDER OF BATTLE:
NONE DISCERNIBLE

25X1D

25X1D

PING-KU ARMY BARRACKS AL 1
NAC

25X1D

STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:
1 ROW OF POSS VEHICLES IN
AREA D

25X1D

25X1D

PIN-HAI ARMY BARRACKS NE AL 1

25X1D

25X1A

25X1A

STATUS:NEGATED

REMARKS:

THE INSTALLATION AT THE REFERENCED COORDINATES IS NOT MILITARY IN NATURE. THE FACILITY APPEARS TO BE ASSOCIATED WITH LOCAL AGRICULTURE AS EVIDENCED BY THE NATIVE HOUSING AND SOYBEAN BINS DISPERSED THROUGHOUT THE AREA.

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CHINA
GROUND FORCE FACILITIES

25X1D

SHAN-TOU ARMY BARRACKS LIEN-TANG AL 1
NAC

25X1D

STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:
4 ROWS OF POSS CARGO TRUCKS

25X1D

SHAN-TOU ARMY BKS AN-FOU SOUTHWEST
NAC

25X1D

25X1D

STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:
6 POSS VEHICLES

25X1D

TAN-TUNG ARMY BKS SHIH-YING-CHIEH AL 1
NAC

25X1D

25X1D

STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:
3 PROB CARGO TRUCKS
5 UNIDENTIFIED PIECES OF
EQUIPMENT

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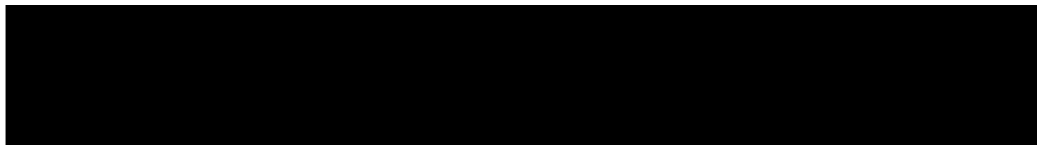
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CHINA
GROUND FORCE FACILITIES

25X1D



25X1D

TUNG-HUA ARMY BARRACKS NORTHEAST AL 5

25X1D



STATUS:OCCUPIED

25X1A

25X1A

REMARKS:

EXTENSIVE TRACK ACTIVITY IS APPARENT IMMEDIATELY NORTH OF THE
INSTALLATION.

GROUND FORCE ORDER OF BATTLE:
NONE DISCERNIBLE

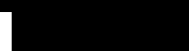
25X1D



25X1D

WEI-FANG ARMY BARRACKS WSW AL 1

25X1D



STATUS:OCCUPIED

25X1A

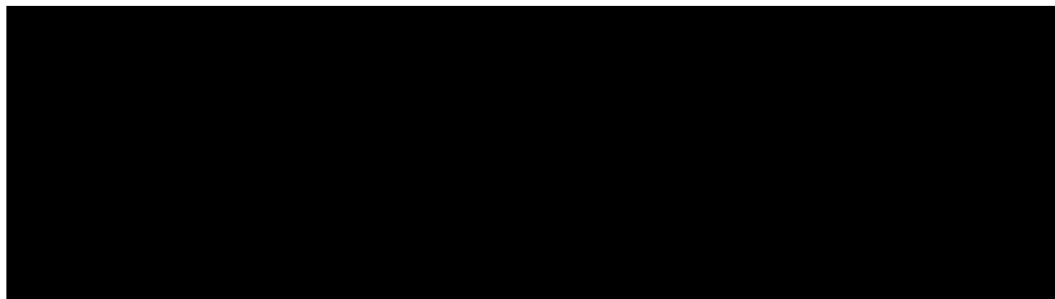
25X1A

REMARKS:

THE AUDITORIUM PREVIOUSLY REPORTED UNDER CONSTRUCTION HAS BEEN
COMPLETED.

GROUND FORCE ORDER OF BATTLE:
NONE DISCERNIBLE

25X1D



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CHINA
GROUND FORCE FACILITIES

25X1D

25X1D

WU-HSI ARMY BARRACKS AREA 7
NAC

STATUS: OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:
15 PROB AAA PIECES

10 PROB CARGO TRUCKS

25X1D

25X1D

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TOP SECRET CHESS RUFF

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CHINA
INDUSTRY

SIGNIFICANT RESULTS

25X1D

HAI-MEN NAVAL BASE SHAN-TOU
NAC

25X1D

25X1A

STATUS: OPERATIONAL

25X1D

NAVAL ORDER OF BATTLE:

2 PROB SHANGHAI PGM
2 SMALL UNIDENTIFIED
VESSELS

25X1D

4 SMALL VESSELS

25X1D

25X1A

LO-YANG TRACTOR PLANT 1

25X1D

25X1D

STATUS: UNDER CONSTRUCTION

25X1A

REMARKS:

THREE LARGE BUILDINGS ARE UNDER CONSTRUCTION IN THE WESTERN
PORTION OF THE PLANT.

ASSOCIATED OBJECTS:

3 POSS CARGO TRUCKS

16 POSS TRACTORS

25X1D

25X1D

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CHINA
MISCELLANEOUS

SIGNIFICANT RESULTS

25X1D

SHUANG-CHENG-TZU PROB INST SITE UCON

25X1D

STATUS: UNDER CONSTRUCTION

25X1A

25X1A

PHYSICAL DESCRIPTION:

25X1D

ADJACENT TO AND WEST OF THE L-INSTRUMENTATION PATTERN APEX SITE. THIS IS ONE OF THREE NEW PROBABLE INSTRUMENTATION SITES UNDER CONSTRUCTION IN THE DESERT NE OF THE SCTMTC AIRFIELD. THE SITE CONSISTS OF FOUR BUILDINGS, THE LARGEST OF WHICH IS APPROXIMATELY [REDACTED] A TOWER, AND A FEW SMALL STRUCTURES OR BUNKERS. NOT PRESENT IN [REDACTED] IT 25X1D WAS FIRST OBSERVED IN A LATE STAGE OF CONSTRUCTION IN [REDACTED]

25X1D

25X1D

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UNITED ARAB REPUBLIC
AIR DEFENSE MISSILES

SIGNIFICANT RESULTS

25X1D

25X1D

AS SUWAYS SAM SUPPORT FACILITY
NAC

STATUS: OPERATIONAL

25X1A

25X1D

25X1D

25X1D

ASWAN SAM SUPPORT FACILITY
NAC

STATUS: OPERATIONAL

25X1A

25X1D

25X1D

25X1D

DAHSHUR SAM SUPPORT FACILITY
NAC

STATUS: OPERATIONAL

25X1A

25X1D

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UNITED ARAB REPUBLIC
AIR BASE FACILITIES

SIGNIFICANT RESULTS

25X1D

AL FAYYUM AIRFIELD
[REDACTED] NAC

25X1D

STATUS: OPERATIONAL

25X1A

AIR ORDER OF BATTLE:
3 PROB FAGOT/FRESCO
1 SMALL PROB
AIRCRAFT/HELICOPTER

25X1D

OTHER RESULTS-NO APPARENT CHANGE

25X1D

ABU SUNBUL AIRFIELD
[REDACTED] NAC

25X1D

STATUS: UNDER CONSTRUCTION

25X1A

AIR ORDER OF BATTLE:
NONE PRESENT

25X1D

25X1D

ASYUT AIRFIELD
[REDACTED] NAC

25X1D

STATUS: OPERATIONAL

25X1A

AIR ORDER OF BATTLE:
NONE PRESENT

25X1D

25X1D

RAS GHARIB AIRFIELD
[REDACTED] NAC

25X1D

STATUS: OPERATIONAL

25X1A

25X1D

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TOP SECRET CHESS RUFF

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UNITED ARAB REPUBLIC
GROUND FORCE FACILITIES

SIGNIFICANT RESULTS

25X1D

FAID ARMY BKS + ENGINEER DEPOT SSE
NAC

25X1D

STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:
NUMEROUS VEHICLES OR PIECES OF EQUIPMENT

25X1D

25X1D

25X1D

SUEZ CANAL SPECIAL AREA 0708
NAC

STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:
NUMEROUS VEHICLES OR PIECES OF EQUIPMENT

25X1D

25X1D

25X1D

SUEZ CANAL SPECIAL AREA 0712
NAC

STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:
NUMEROUS VEHICLES OR PIECES OF EQUIPMENT

25X1D

TOP SECRET CHESS RUFF

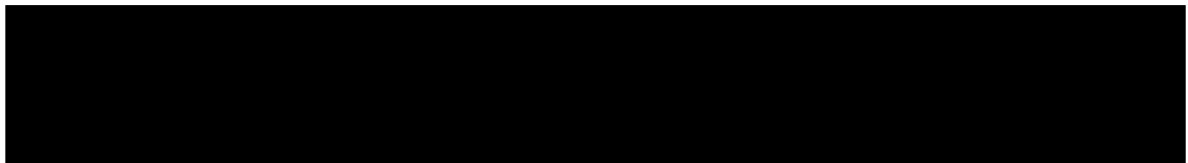
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KH-4 MISSION 1108

UNITED ARAB REPUBLIC
GROUND FORCE FACILITIES

25X1D



25X1D

25X1D

SUEZ CANAL SPECIAL AREA 0716
NAC

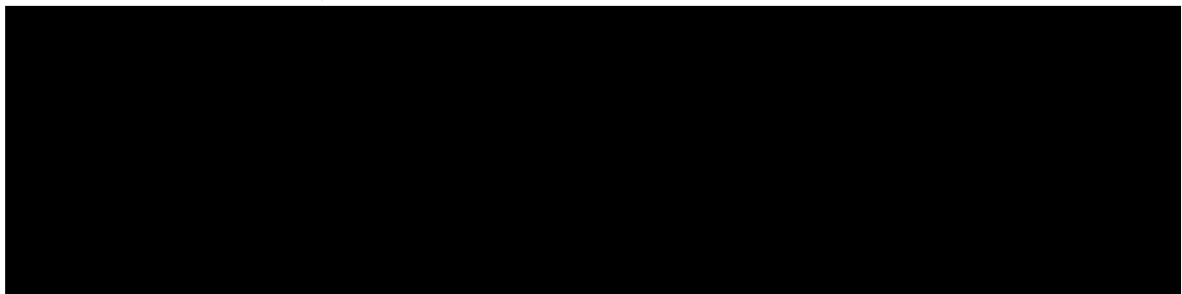


25X1A

STATUS:OCCUPIED

GROUND FORCE ORDER OF BATTLE:
NUMEROUS VEHICLES OR PIECES OF EQUIPMENT

25X1D



25X1D

25X1D

SUEZ CANAL SPECIAL AREA 1204
NAC

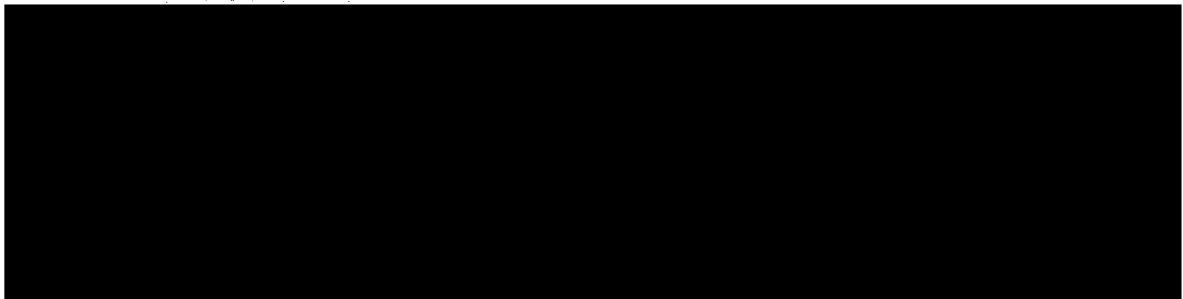


25X1A

STATUS:OCCUPIED

GROUND FORCE ORDER OF BATTLE:
NUMEROUS VEHICLES OR PIECES OF EQUIPMENT

25X1D



25X1D

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TOP SECRET CHESS RUFF

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KH-4 MISSION 1108

POLAND
AIR DEFENSE MISSILES

SIGNIFICANT RESULTS

25X1D

GDANSK SAM SITE B31-2
NAC

25X1D

STATUS:OCCUPIED

25X1A

25X1D

ORZYSZ SAM SITE A14-2
NAC

25X1D

STATUS:OCCUPIED

25X1A

REMARKS:
THE SITE IS PROBABLY OCCUPIED.

25X1D

25X1D

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TOP SECRET CHESS RUFF

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KH-4 MISSION 1108

SAUDI ARABIA
AIR DEFENSE MISSILES

SIGNIFICANT RESULTS

25X1D

TABUK EAST HAWK SITE A12-11

25X1D

STATUS:OCCUPIED

25X1A

25X1D

REMARKS:

ON [REDACTED] THE LAUNCH POSITIONS AND THE RADAR POSITIONS
ARE UNOCCUPIED. HOWEVER, NUMEROUS VEHICLES OR PIECES OF
EQUIPMENT ARE OBSERVED ADJACENT TO THE PROBABLE BARRACKS.

25X1D

ON [REDACTED] THE LAUNCH POSITIONS AND THE RADAR POSITIONS ARE
OCCUPIED. NUMEROUS VEHICLES OR PIECES OF EQUIPMENT ARE ALSO
OBSERVED AT THE SITE.

25X1D

TOP SECRET CHESS RUFF

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TCS-20015/70 - IPIR 19
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USSR
DEPLOYED STRATEGIC SSM FACILITIES

SIGNIFICANT RESULTS

25X1D

25X1D

BARANO-ORENBURGSKOYE MRBM COMPLEX
NAC

STATUS:NOT OPERATIONAL

25X1A

REMARKS:

ALL COMPONENTS OF THE LAUNCH COMPLEX ARE VISIBLE. NO MISSILE EQUIPMENT IS OBSERVED, ALTHOUGH AT LEAST TEN VEHICLES ARE ON THE TWO SOUTHERN LAUNCH PADS.

25X1D

25X1D

GLAZOV MISSILE SUPPORT FACILITY
NAC

STATUS:OPERATIONAL

25X1D

25X1A

REMARKS:

SMALL SCALE AND SHADOWS PRECLUDE A COUNT AND IDENTIFICATION OF VEHICLES AND PIECES OF EQUIPMENT.

25X1D

25X1D

GVARDEYSK MRBM COMPLEX
NAC

STATUS:NOT OPERATIONAL

25X1D

25X1A

REMARKS:

ALL ELEMENTS OF THE COMPLEX ARE VISIBLE. HOWEVER, HEAVY SHADOWS PRECLUDE IDENTIFICATION OF EQUIPMENT.

25X1D

TOP SECRET CHESS RUFF

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USSR
DEPLOYED STRATEGIC SSM FACILITIES

25X1D



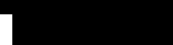
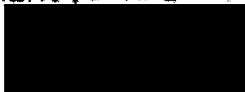
25X1D

KREMOVO MRBM COMPLEX

25X1A



25X1D



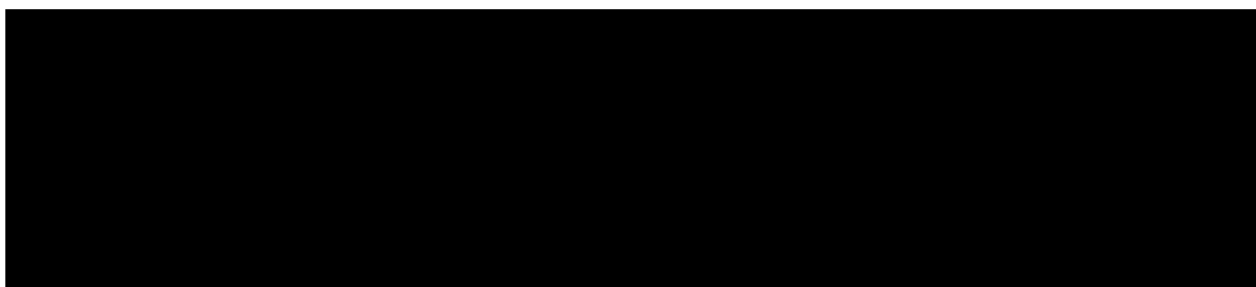
25X1A

STATUS: OPERATIONAL

REMARKS:

ALL COMPONENTS OF THE COMPLEX INCLUDING THE MANZOVKA SCALEBOARD SITES ARE VISIBLE. A POSSIBLE DRIVE-THROUGH BUILDING AND A ROAD WHICH WOULD LINK THE BUILDING TO TWO LAUNCH POSITIONS ARE UNDER CONSTRUCTION INSIDE THE LAUNCH SITE AT MANZOVKA SCALEBOARD LAUNCH SITE 1. AT KREMOVO LAUNCH SITE 1, PROPELLANT TRANSPORTERS ARE ALONGSIDE THE ERECTORS AT THE FOUR NORTHERN LAUNCH PADS. AT THE SOUTHERNMOST PAD, A TRANSPORTER APPEARS TO BE ALIGNED WITH THE ERECTOR. ERECTORS ARE PRESENT ON ALL 12 LAUNCH PADS OF THE TWO SITES.

25X1D



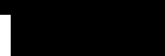
25X1D

PINSK MRBM COMPLEX

25X1A



25X1D



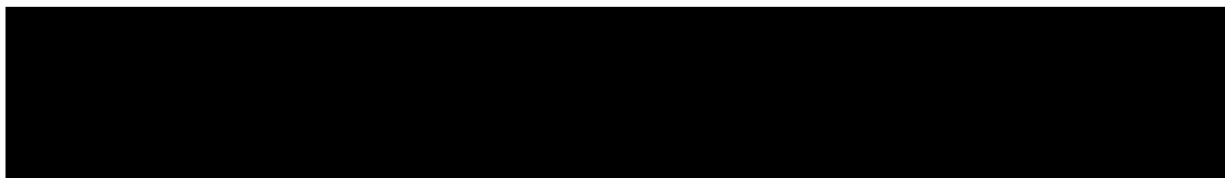
STATUS: OPERATIONAL

25X1A

REMARKS:

ALL COMPONENTS OF THE COMPLEX ARE OBSERVED. AT LAUNCH SITE 1, TWO UNIDENTIFIED OBJECTS, POSSIBLY TRANSPORTERS, ARE ALIGNED WITH THE ERECTORS ON THE TWO EASTERN LAUNCH PADS. POSSIBLE ERECTORS ARE ON EACH OF THE LAUNCH PADS AT LAUNCH SITE 2.

25X1D



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USSR
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

25X1D SOVETSK MRBM COMPLEX
NAC

STATUS: OPERATIONAL

25X1A

REMARKS:

ALL ELEMENTS OF THE COMPLEX ARE VISIBLE. HOWEVER, HEAVY SHADOWS PRECLUDE IDENTIFICATION OF EQUIPMENT.

25X1D

25X1D

25X1D

ZNAMENSK MRBM COMPLEX
NAC

STATUS: OPERATIONAL

25X1A

REMARKS:

ALL ELEMENTS OF THE COMPLEX ARE VISIBLE. HOWEVER, HEAVY SHADOWS PRECLUDE IDENTIFICATION OF EQUIPMENT.

25X1D

OTHER RESULTS-NO APPARENT CHANGE

25X1D

25X1D

MANZOVKA IR/MRBM DIVISION HQ
NAC

STATUS: OCCUPIED

25X1A

25X1D

25X1D

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USSR
MISSILE RANGES

SIGNIFICANT RESULTS

25X1D

KAPUSTIN YAR/VLADIMIROVKA MSL TEST CTR

25X1D

25X1A

25X1A

STATUS: OPERATIONAL

25X1D

REMARKS:

25X1D

AT LAUNCH COMPLEX A ON [REDACTED] CONSTRUCTION PROGRESS IS OBSERVED ONLY AT THE NEW MULTISTORY BUILDING IN THE MISSILE ASSEMBLY AND CHECKOUT FACILITY. THIS BUILDING NOW APPEARS TO BE ROOFED. ON [REDACTED] ADDITIONAL SCRAPING IS OBSERVED ON THE SW SIDE OF 2A-1.

25X1D

AT LAUNCH COMPLEX B ON [REDACTED] DISMANTLED PIECES OF THE LARGE INCLINED LAUNCHER IN LAUNCH AREA B3, WHICH HAD BEEN STORED ON THE CONCRETE JUST FORWARD OF THE LAUNCHER, HAVE BEEN REMOVED FROM THE LAUNCH AREA. ON [REDACTED] APPARENT SCRAPING IS OBSERVED IN THE SW CORNER OF LAUNCH AREA B3.

25X1D

AT LAUNCH AREA 1C, THE PREVIOUSLY REPORTED FOUR POSSIBLE VEHICLES ARE AGAIN OBSERVED PARKED AT THE REAR EDGE OF LAUNCH PAD 1C-3.

AT LAUNCH AREA 2C, THE GROUND WITHIN THE SECURITY FENCE APPEARS TO HAVE BEEN NEWLY SCRAPED.

AT LAUNCH AREA 3C, CONSTRUCTION CONTINUES ON THE ARCH-ROOFED DRIVE-IN BUILDING, A NEW DRIVE-THROUGH BUILDING BETWEEN THE TWO LAUNCH PADS, AN UNIDENTIFIED BUILDING ON LAUNCH PAD 3C-1, AND A SIMILAR UNIDENTIFIED BUILDING ADJACENT TO LAUNCH PAD 3C-2.

AT LAUNCH AREA 4C, RESURFACING OF THE CONCRETE BETWEEN THE SILOS IS CONTINUING AT LAUNCH SITES 4C-1 AND 4C-2.

AT LAUNCH COMPLEX H, A NEW ROADWAY HAS BEEN CONSTRUCTED CONNECTING THE TWO LAUNCH PADS.

AT THE SRBM TRAINING AREA, AN UNDETERMINED NUMBER OF VEHICLES OR PIECES OF EQUIPMENT ARE OBSERVED IN THE FIELD TRAINING AREAS NW AND SW OF THE SUPPORT AREA.

NO APPARENT CHANGES ARE OBSERVED AT LAUNCH COMPLEXES D, E, OR G, LAUNCH AREAS 5C OR 6C, OR AT THE DOWNRANGE TRACKING FACILITIES.

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USSR
MISSILE RANGES

25X1D

25X1D

MAKAT MRBM R/R TRANSFER POINT
[REDACTED] NAC

STATUS:OCCUPIED

25X1D

25X1A

REMARKS:
NUMEROUS RAIL CARS ARE OBSERVED ON THE TEMPORARY RAILS AND THE
RAIL SIDING.

25X1D

25X1D

SASYKTAU MISSILE LAUNCH FACILITY
[REDACTED] NAC

STATUS:OCCUPIED

25X1D

25X1A

25X1D

OTHER RESULTS-NO APPARENT CHANGE

25X1D

25X1D

MAKAT MRBM FIXED FIELD LAUNCH POINT
[REDACTED] NAC

STATUS:UNOCCUPIED

25X1A

MISSILE ORDER OF BATTLE:
NONE DISCERNIBLE

25X1D

25X1D

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USSR
AIR DEFENSE MISSILES

SIGNIFICANT RESULTS

25X1D

AKHTUBINSK SAM SITE A04-2
NAC

25X1D

STATUS:OCCUPIED

25X1A

25X1D

25X1D

25X1D

CHELYABINSK SAM SITE B05-2
NAC

STATUS:OCCUPIED

25X1A

25X1D

25X1D

25X1D

CHERNYAKHOVSK SAM SITE B16-2
NAC

STATUS:OCCUPIED

25X1A

25X1D

25X1D

25X1D

CHERNYAKHOVSK SAM SITE B21-2
NAC

STATUS:OCCUPIED

25X1A

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USSR
AIR DEFENSE MISSILES

25X1D

[REDACTED]

25X1D

CHERNYAKHOVSK SAM SITE B21-3
NAC

25X1D

STATUS:OCCUPIED

25X1A

25X1D

[REDACTED]

25X1D

25X1D

GORKIY SAM SITE B24-2
NAC

STATUS:OCCUPIED

25X1A

25X1D

[REDACTED]

25X1D

25X1D

GORKIY SAM SITE B31-2

STATUS:OCCUPIED

25X1A

25X1A

PHYSICAL DESCRIPTION:

15 NM NW OF GORKIY.

THE LINK-CONFIGURED SITE CONSISTS OF SIX REVETTED LAUNCH POSITIONS, A REVETTED GUIDANCE AREA, AND PROBABLY THREE REVETTED MISSILE-HOLD POSITIONS. THE ON-SITE SUPPORT FACILITIES CONSIST OF ONE REVETTED BUILDING, ONE LARGE ADMINISTRATION BUILDING, AND FOUR BARRACKS. THE SITE IS PROBABLY OCCUPIED.

25X1D

[REDACTED]

25X1D

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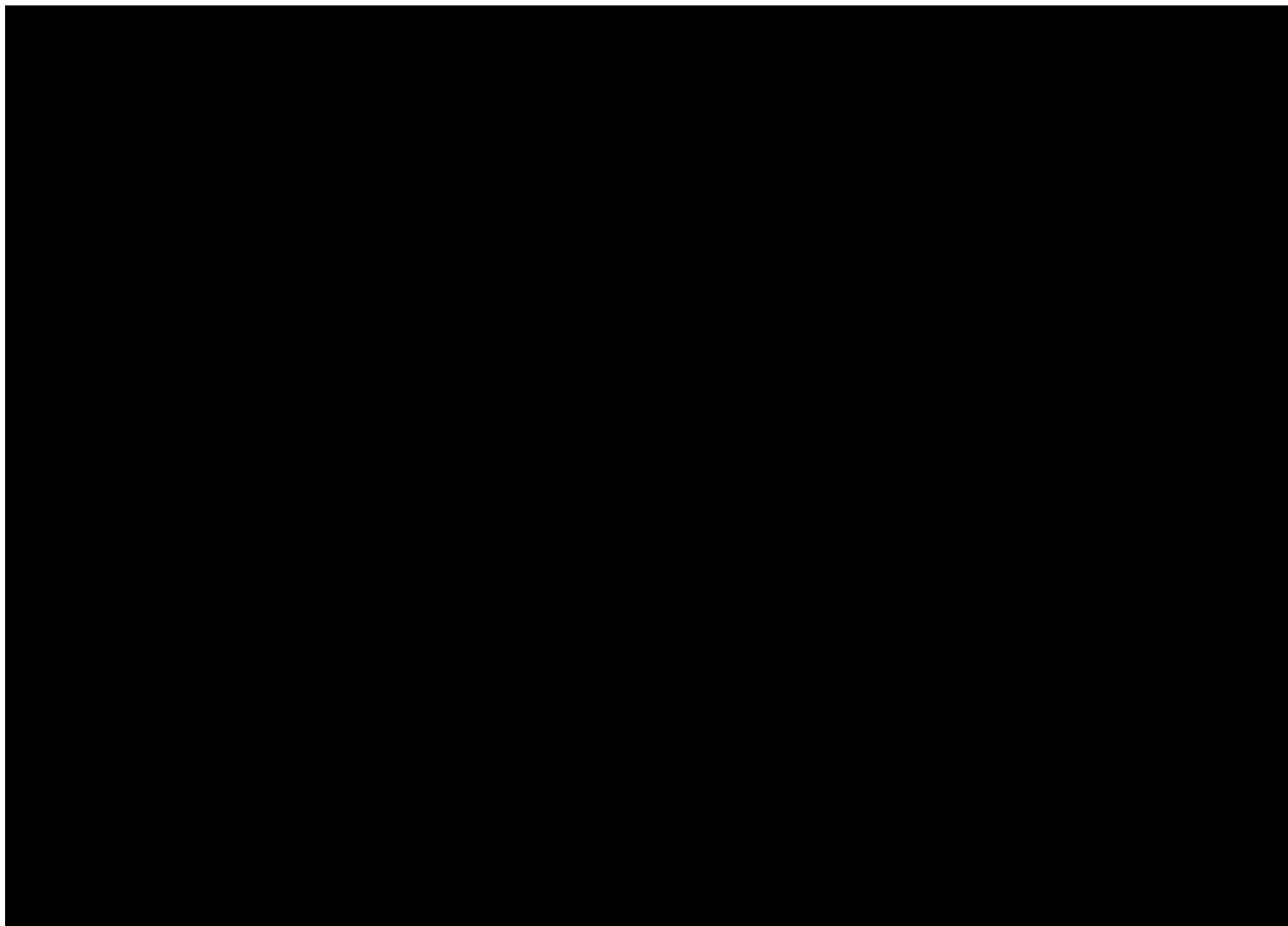
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USSR
AIR DEFENSE MISSILES

25X1D



KLAIPEDA SAM COMPLEX C15-5

25X1A

25X1D

25X1D

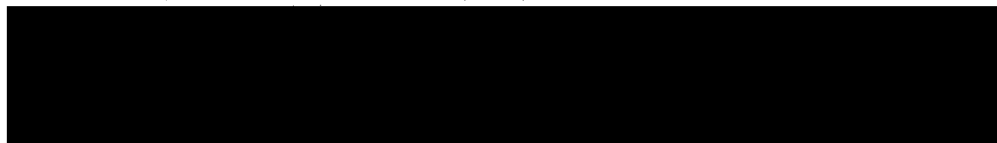
STATUS: OCCUPIED

25X1A

REMARKS:

A NEW MISSILE COMPONENT STORAGE BUILDING IS OBSERVED IN THE
MISSILE-HANDLING FACILITY.

25X1D



25X1D

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USSR
AIR DEFENSE MISSILES

25X1D

KULYAB SA-2 MISSILE TRAINING FACILITY

25X1D

STATUS: OPERATIONAL

25X1A

25X1A

REMARKS:

ELEVEN COMPLETED LARGE BUILDINGS OF SIMILAR CONSTRUCTION ARE OBSERVED ADJACENT TO AND NNE OF THE BARRACKS. TWO ADDITIONAL SIMILAR BUILDINGS ARE IN THE MIDSTAGE OF CONSTRUCTION AND FOUNDATION EXCAVATIONS ARE OBSERVED FOR FOUR MORE.

25X1D

25X1D

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USSR
COMMO/ELEC/RADAR FACILITIES

SIGNIFICANT RESULTS

25X1D

ARTEMOVSKIY TV/MICROWAVE FACILITY

25X1D

STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

925 METERS (3,038 FEET) WEST OF ARTEMOVSKIY. THIS SECURED FACILITY CONTAINS ONE SELF-SUPPORTING STEEL TV TOWER, ONE CONTROL BUILDING, AND ONE SUPPORT BUILDING.

25X1D

25X1D

CHULYM MICROWAVE FACILITY

25X1D

25X1A

PHYSICAL DESCRIPTION:

1.5 NM SW OF CHULYM. THIS UNSECURED FACILITY APPEARS TO BE IN THE FINAL STAGES OF CONSTRUCTION. IT CONTAINS A SELF-SUPPORTING STEEL LATTICE TOWER WITH PROBABLE R-600 MICROWAVE ELEMENTS AND ONE CONTROL BUILDING.

25X1D

25X1D

DUPLENSKAYA MICROWAVE FACILITY

25X1D

STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

1 NM WNW OF DUPLENSKAYA. THIS SECURED FACILITY CONTAINS A SELF-SUPPORTING STEEL LATTICE TOWER WITH PROBABLE R-600 MICROWAVE ELEMENTS, ONE CONTROL BUILDING, AND ONE SUPPORT BUILDING.

25X1D

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TAMM/KH/MI/CC
Control System Only

TOP SECRET CHESS RUFF

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USSR
COMMO/ELEC/RADAR FACILITIES

25X1D

[REDACTED]

25X1D

IRBIT AIR WARNING RADAR FACILITY

25X1D

[REDACTED]

[REDACTED]

[REDACTED]

STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

925 METERS (3,038 FEET) NM SOUTH OF IRBIT. THIS SECURED FACILITY CONTAINS TWO OCCUPIED RADAR MOUNDS, FOUR SUPPORT BUILDINGS, AND FOUR VEHICLE REVETMENTS.

ELECTRONIC ORDER OF BATTLE:

1 PROB SEARCH RADAR

1 PROB HEIGHT FINDER

25X1D

[REDACTED]

25X1D

25X1D

KOSA POSSIBLE MICROWAVE FACILITY

[REDACTED]

[REDACTED]

[REDACTED]

STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

925 METERS (3,038 FEET) NM NORTH OF KOSA. THIS SECURED FACILITY CONTAINS ONE SELF-SUPPORTING POSSIBLE MICROWAVE TOWER. SIZE, TYPE, OR ORIENTATION OF ELEMENTS OF THE TOWER CANNOT BE DETERMINED.

25X1D

[REDACTED]

25X1D

25X1D

KRASNOYARSK ORBITA FACILITY

[REDACTED]

[REDACTED]

[REDACTED]

STATUS: OPERATIONAL

25X1A

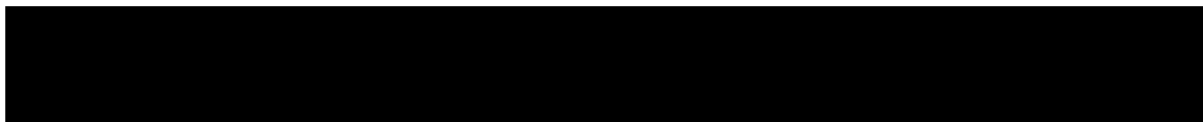
PHYSICAL DESCRIPTION:

WESTERN EDGE OF KRASNOYARSK ON THE NORTHERN BANK OF THE YENISEY RIVER. THIS IS A SECURED ORBITA RECEIVING FACILITY WHICH CONSISTS OF A DISH ANTENNA 40 FEET IN DIAMETER MOUNTED ON A CONTROL BUILDING 60 FEET IN DIAMETER.

TCS-20015/70 - IPIR 19
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USSR
COMMO/ELEC/RADAR FACILITIES

25X1D



25X1D

25X1D

LENINSKOYE MICROWAVE FACILITY

25X1A



STATUS: OPERATIONAL

PHYSICAL DESCRIPTION:

1 NM SE OF LENINSKOYE. THIS SECURED FACILITY CONTAINS ONE GUYED MICROWAVE TOWER, ONE CONTROL BUILDING, AND ONE SUPPORT BUILDING.

25X1D



25X1D

LYANGASOVO MICROWAVE FACILITY

25X1A



25X1D

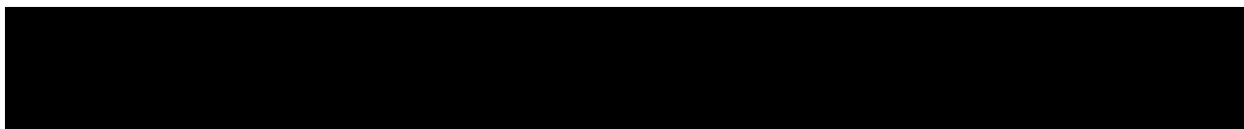


STATUS: OPERATIONAL

PHYSICAL DESCRIPTION:

6 NM NW OF LYANGASOVO. THIS SECURED FACILITY CONTAINS ONE GUYED MICROWAVE TOWER, A CONTROL BUILDING, AND TWO SUPPORT BUILDINGS. THE SMALL SCALE OF THE PHOTOGRAPHY AND HAZE PRECLUDE IDENTIFICATION OF MICROWAVE ELEMENTS BY TYPE, SIZE, OR ORIENTATION.

25X1D



25X1D

25X1D

PONAZYREVO MICROWAVE FACILITY



STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

1 NM NNE OF PONAZYREVO. THIS SECURED FACILITY CONTAINS ONE GUYED MICROWAVE TOWER, A CONTROL BUILDING, AND TWO SUPPORT BUILDINGS.

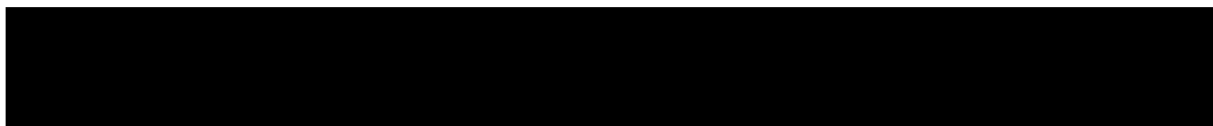
Handle Via
Talent Keyhole
Control System Only

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USSR
COMMO/ELEC/RADAR FACILITIES

25X1D



25X1D

SINDA HF COMMUNICATIONS FACILITY



25X1D



25X1A

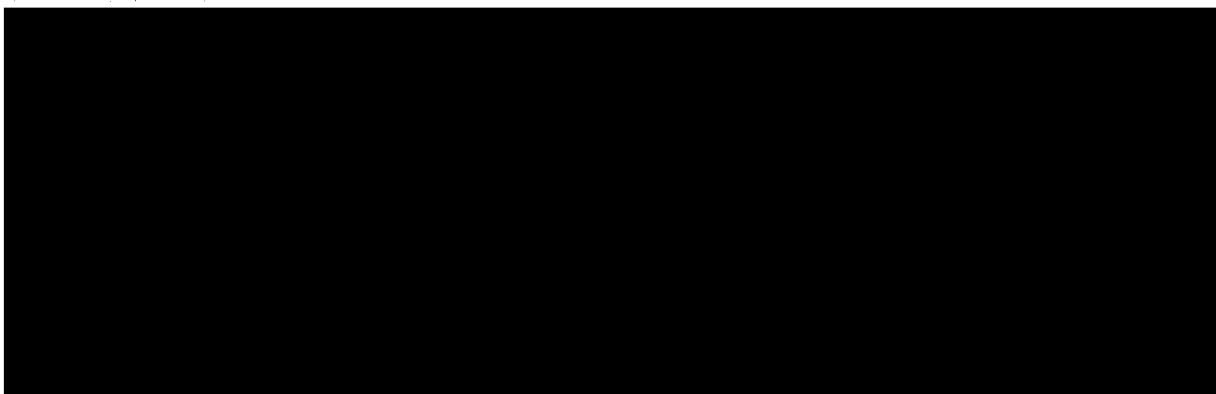
25X1A

STATUS: UNDER CONSTRUCTION

REMARKS:

CONSTRUCTION CONTINUES ON 24 RHOMBIC ANTENNAS AND ON THE CONTROL AREA. A FISHBONE RECEIVING FACILITY IS 13.7 NM WSW OF THIS FACILITY AT SARAPULSKOYE.

25X1D



25X1D

SLOBODSKOY MICROWAVE FACILITY

25X1A



25X1D

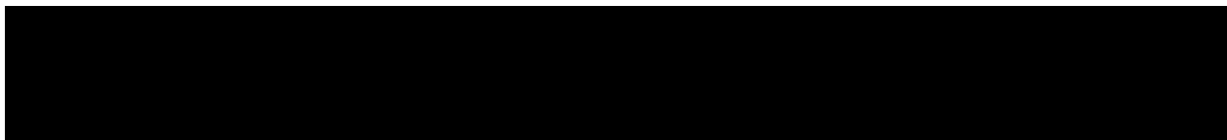


STATUS: OPERATIONAL

PHYSICAL DESCRIPTION:

2 NM SW OF SLOBODSKOY. THIS SECURED FACILITY CONTAINS ONE GUYED, LATTICE MICROWAVE TOWER, AND A CONTROL BUILDING. THE SMALL SCALE OF THE PHOTOGRAPHY PRECLUDES IDENTIFICATION OF MICROWAVE ELEMENTS BY SIZE, TYPE, OR ORIENTATION.

25X1D



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Control System Only

TOP SECRET CHESS RUFF

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USSR
COMMO/ELEC/RADAR FACILITIES

25X1D

VOKHMA AIR WARNING RADAR FACILITY

25X1D

STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

EASTERN EDGE OF VOKHMA, THIS SECURED FACILITY CONTAINS ONE OCCUPIED RADAR MOUND, THREE PROBABLE RADAR POSITIONS, ONE CROSS-SHAPED REVETMENT AND TWO VEHICLE OR EQUIPMENT REVETMENTS. WITHIN THE SECURED AREA AND SOUTH OF THE AW FACILITY IS A SUPPORT FACILITY CONTAINING ONE BARRACKS, ONE ADMINISTRATION BUILDING, AND TWO SUPPORT BUILDINGS.

ELECTRONIC ORDER OF BATTLE:

4 PROB RADARS

25X1D

OTHER RESULTS-NO APPARENT CHANGE

25X1D

25X1D

KRASNY BOR HF COMMO FAC POPOVKA
NAC

STATUS: OPERATIONAL

25X1A

25X1D

25X1D

25X1A

25X1D

LENINGRAD RADAR FAC SSE

STATUS: UNKNOWN

25X1A

REMARKS:

THE SMALL SCALE OF THE PHOTOGRAPHY PRECLUDES IDENTIFICATION OF THIS FACILITY.

25X1D

25X1D

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USSR
AIR BASE FACILITIES

SIGNIFICANT RESULTS

25X1D

25X1D ABAN AIRFIELD

25X1A

STATUS: OPERATIONAL

PHYSICAL DESCRIPTION:

925 METERS (3,038 FEET) EAST OF ABAN. THIS AIRFIELD CONSISTS
OF A PACKED SNOW RUNWAY.

AIR ORDER OF BATTLE:
NONE DISCERNIBLE

25X1D

Handle Via
TALON KEYHOLE
Control System Only

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USSR
GROUND FORCE FACILITIES

SIGNIFICANT RESULTS

25X1D

KOTELNICH PROB INFANTRY TRAINING AREA

25X1D

STATUS:OCCUPIED

25X1A

PHYSICAL DESCRIPTION:

14 NM SOUTH OF KOTELNICH, THIS PROBABLE INFANTRY TRAINING AREA MEASURES APPROXIMATELY 4 BY 5 NM. IT CONTAINS A SMALL SUPPORT AREA CONSISTING OF APPROXIMATELY 15 STORAGE AND SUPPORT BUILDINGS, AN ATHLETIC FIELD AND TRACK, AND AT LEAST TWO SMALL-ARMS FIRING RANGES. THE REMAINDER OF THE TRAINING AREA CONTAINS NUMEROUS TRENCHES, FOXHOLES, AND FIELD FORTIFICATIONS.

25X1D

25X1D

SERGEYEVKA ARMY ARTY RPR DPO DO-1

25X1D

25X1A

25X1A

STATUS:OCCUPIED

PHYSICAL DESCRIPTION:

THE INSTALLATION AT THE REFERENCED COORDINATES CONTAINS ONE PROBABLE ADMINISTRATION BUILDING, THREE BARRACKS, NINE STORAGE OR SUPPORT BUILDINGS, AND A MESSHALL. A SECURED MOTOR POOL CONTAINS ONE PROBABLE VEHICLE MAINTENANCE BUILDING, FIVE VEHICLE STORAGE SHEDS, AND EIGHT OTHER SMALLER BUILDINGS. AN AMMUNITION STORAGE AREA CONTAINS TWO REVETTED BUILDINGS AND TWO OTHER BUILDINGS. A SEPARATELY SECURED AREA CONTAINS ONE SUPPORT BUILDING, TWO STORAGE BUILDINGS, TWO VEHICLE STORAGE SHEDS, AND TWO UTILITY SHEDS. AN OPEN STORAGE VEHICLE AND EQUIPMENT PARK IS ALSO OBSERVED.

GROUND FORCE ORDER OF BATTLE:
350 VEHICLES OR PIECES OF
EQUIPMENT (APPROXIMATELY)

25X1D

25X1D

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KH-4 MISSION 1108

USSR
INDUSTRY

SIGNIFICANT RESULTS

25X1D

KOMSOMOLSK AIRFRAME PLANT ORDZH 126

25X1D

25X1A

STATUS: OPERATIONAL

REMARKS:

25X1D

EXPANSION OF THE MISSILE CHECKOUT BUILDING REPORTED ON MISSION
[REDACTED] APPEARS TO BE COMPLETE. CONSTRUCTION ON THE
NEW ASSEMBLY HALL IS CONTINUING. IT APPEARS TO BE 40 PERCENT
COMPLETE. THE NEW AIRCRAFT DISPERSAL AREA AT THE NORTH END OF
THE RUNWAY IS STILL UNDER CONSTRUCTION. NO OTHER CHANGES ARE
OBSERVED.

25X1D

ASSOCIATED OBJECTS:

38 SMALL DELTA/SWEPT-WING
(AT LEAST)
2 POSS COLT

1 POSS SMALL HELICOPTER
10 PROB FITTER FUSELAGE
CRATES (AT LEAST)

25X1D

9 POSS FLAGON
8 POSS FITTER
2 CAB
2 COLT

8 PROB FITTER FUSELAGE
CRATES
8 PROB FITTER COMPONENT
CRATES
3 PROB FITTER WING CRATES

33 SMALL SWEPT-WING
1 POSS SMALL HELICOPTER

25X1D

50 SMALL DELTA/SWEPT-WING
(AT LEAST)
1 MEDIUM STRAIGHT-WING
2 CAB

2 SMALL STRAIGHT-WING
2 POSS SS-N-3 CRATES
14 SHIPPING CRATES
(APPROXIMATELY)

25X1D

25X1D

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NORTH VIETNAM
GROUND FORCE FACILITIES

SIGNIFICANT RESULTS

25X1D

HANOI STORAGE AREA BAC MAI

25X1D

STATUS: OCCUPIED

25X1A

25X1A

PHYSICAL DESCRIPTION:

IMMEDIATELY SE OF BACH MAI AIRFIELD.
THE INSTALLATION CONSISTS OF EIGHT MULTISTORY WAREHOUSES, FOUR
STORAGE BUILDINGS, NINE BARRACKS (THREE MULTISTORY), ONE
ADMINISTRATION BUILDING, ONE MESSHALL, AND 23 SUPPORT
BUILDINGS.

GROUND FORCE ORDER OF BATTLE:
50 UNIDENTIFIED VEHICLES
(APPROXIMATELY)

25X1D

COUNTRY CODES

The following is an alphabetic listing of country codes as compiled from the Basic Encyclopedia. Locations of targets in this report are indicated by the country code preceding the coordinates.

AD	Aden	GO	Gotland Is.	PK	Pakistan (West)
AF	Afghanistan	GR	Greece	PO	Poland
AG	Algeria	GV	Guinea	PT	Portugal
AL	Albania	GW	West Germany	PU	Portuguese Guinea
AM	Andaman and Nicobar Is.	HK	Hong Kong	QA	Qatar
AN	Andorra	HU	Hungary	RA	Rwanda
AO	Angola	ID	Indonesia	RI	Rio Muni
AU	Austria	IF	Ifni	RK	Ryukyu Is.
AZ	Azores Is.	IL	Iceland	RM	Mali
BA	Bahrain Is.	IN	India	RS	Socotra Is.
BK	Botswana (Bechuanaland)	IQ	Iraq	RU	Rumania
BE	Belgium	IR	Iran	RY	Zambia
BH	Bornholm Is.	IS	Israel	RZ	Rhodesia
BI	Balearic Is.	IT	Italy	SB	San Marino
BJ	Nanpo Shoto	IV	Ivory Coast	SD	Sardinia
BM	Burma	JA	Japan	SE	Seychelles Is.
BO	Sabah (N. Borneo)	JK	Jammu and Kashmir	SF	French Somaliland
BS	Lesotho (Basutoland)	JO	Jordan	SG	Sarawak
BT	Bhutan	KE	Kenya	SI	Sicily
BU	Bulgaria	KN	North Korea	SJ	Society Is.
BW	Berlin, West	KS	South Korea	SK	Senegal
BX	Brunei	KU	Kuwait	SL	Sierra Leone
BY	Burundi	LA	Laos	SM	Somali Republic
CA	Canary Is.	LC	Laccadive Is.	SP	Spain
CB	Cambodia	LE	Lebanon	SR	Saudi Arabia
CD	Central African Republic	LI	Liberia	SS	Spanish Sahara
CE	Ceylon	LS	Liechtenstein	ST	Sao Tome E Principe
CG	Chad	LX	Luxembourg	SU	Sudan
CH	China	LY	Libya	SV	Svalbard
CL	Caroline Is.	MA	Malagasy Republic	SW	Sweden
CM	Cameroon	MC	Macao	SY	Syria
CP	Congo (Brazzaville)	MD	Madeira Is.	SZ	Switzerland
CR	Crete	MF	Malaysia	TA	Tanzania
CT	Corsica	MG	Mongolia	TC	Trucial States
CV	Cape Verde Is.	ML	Malta	TH	Thailand
CX	Congo (Leopoldville)	MN	Monaco	TI	Tibet
CY	Cyprus	MO	Morocco	TK	Turkey
CZ	Czechoslovakia	MR	Mascarene Is.	TM	Portuguese Timor
DA	Dahomey	MT	Mauritania	TO	Togo
DE	Denmark	MV	Maldives Is.	TU	Tunisia
DO	Dodecanese Is.	MZ	Mozambique	TW	Taiwan
EG	Egypt	NE	Netherlands	UA	Republic of South Africa
EP	Pakistan (East)	NI	Nigeria	UG	Uganda
ET	Ethiopia	NK	Niger	UR	USSR
FI	Finland	NO	Norway	UV	Upper Volta
FO	Faeroe Is.	NP	Nepal	VN	North Vietnam
FR	France	NS	Surinam	VS	South Vietnam
GA	Gambia	NW	New Guinea	VT	Vatican City
GC	Gabon	NY	Malawi	WA	Swaziland
GE	East Germany	NZ	New Zealand	YE	Yemen
GH	Ghana	OM	Muscat Oman	YU	Yugoslavia
GI	Gibraltar	PI	Philippines		

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COUNTRY CODES

The following is an alphabetic listing of country codes as compiled from the Basic Encyclopedia. Locations of targets in this report are indicated by the country code preceding the coordinates.

AD Aden	GO Gotland Is.	PK Pakistan (West)
AF Afghanistan	GR Greece	PO Poland
AG Algeria	GV Guinea	PT Portugal
AL Albania	GW West Germany	PU Portuguese Guinea
AM Andaman and Nicobar Is.	HK Hong Kong	QA Qatar
AN Andorra	HU Hungary	RA Rwanda
AO Angola	ID Indonesia	RI Rio Muni
AU Austria	IF Ifni	RK Ryukyu Is.
AZ Azores Is.	IL Iceland	RM Mali
BA Bahrain Is.	IN India	RS Socotra Is.
BK Botswana (Bechuanaland)	IQ Iraq	RU Rumania
BE Belgium	IR Iran	RY Zambia
BH Bornholm Is.	IS Israel	RZ Rhodesia
BI Balearic Is.	IT Italy	SB San Marino
BJ Nanpo Shoto	IV Ivory Coast	SD Sardinia
BM Burma	JA Japan	SE Seychelles Is.
BO Sabah (N. Borneo)	JK Jammu and Kashmir	SF French Somaliland
BS Lesotho (Basutoland)	JO Jordan	SG Sarawak
BT Bhutan	KE Kenya	SI Sicily
BU Bulgaria	KN North Korea	SJ Society Is.
BW Berlin, West	KS South Korea	SK Senegal
BX Brunei	KU Kuwait	SL Sierra Leone
BY Burundi	LA Laos	SM Somali Republic
CA Canary Is.	LC Laccadive Is.	SP Spain
CB Cambodia	LE Lebanon	SR Saudi Arabia
CD Central African Republic	LI Liberia	SS Spanish Sahara
CE Ceylon	LS Liechtenstein	ST Sao Tome E Principe
CG Chad	LX Luxembourg	SU Sudan
CH China	LY Libya	SV Svalbard
CL Caroline Is.	MA Malagasy Republic	SW Sweden
CM Cameroon	MC Macao	SY Syria
CP Congo (Brazzaville)	MD Madeira Is.	SZ Switzerland
CR Crete	MF Malaysia	TA Tanzania
CT Corsica	MG Mongolia	TC Trucial States
CV Cape Verde Is.	ML Malta	TH Thailand
CX Congo (Leopoldville)	MN Monaco	TI Tibet
CY Cyprus	MO Morocco	TK Turkey
CZ Czechoslovakia	MR Mascarene Is.	TM Portuguese Timor
DA Dahomey	MT Mauritania	TO Togo
DE Denmark	MV Maldive Is.	TU Tunisia
DO Dodecanese Is.	MZ Mozambique	TW Taiwan
EG Egypt	NE Netherlands	UA Republic of South Africa
EP Pakistan (East)	NI Nigeria	UG Uganda
ET Ethiopia	NK Niger	UR USSR
FI Finland	NO Norway	UV Upper Volta
FO Faeroe Is.	NP Nepal	VN North Vietnam
FR France	NS Surinam	VS South Vietnam
GA Gambia	NW New Guinea	VT Vatican City
GC Gabon	NY Malawi	WA Swaziland
GE East Germany	NZ New Zealand	YE Yemen
GH Ghana	OM Muscat Oman	YU Yugoslavia
GI Gibraltar	PI Philippines	

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